improve and simplify the billing pro- i cedure in DESU and gradual stabilisation of the computerised billing system, DESU has been able to considerably bring down the incidence of incorrect and delayed billing.

Clearance of Bodhghat project

2911. SHRI MURLIDHAR CHANDRAKANT BH AND A RE:
SHRI MAHENDRA PRASAD:

Will the Minister of ENERGY be pleased to state:

(a) whether Madhya Pradesh Government has recently approached the Central Government for clearance of the Bodhghat project on Indrawati river; and

(b) if so, what are the details in this regard and what is Central Government's response thereto?

THE MINISTER OF ENERGY WITH ADDITIONAL CHARGE OF THE MINISTRY OF CIVIL AVIATION (SHRI ARIF MOHD. KHAN): (a) and (b) Bodhghat Hydro-electric Project was sanctioned in February, 1979 by the Planning Commission. As the forest land required for the Project was not transferred immediately after approval of the Project, the provisions of Forest (Conservation) Act, 1980 became applicable to it. The State Authorities have submitted a proposal for clearance of the Project under the Forest (Conservation) Act, 1980 to the Union Ministry of Environment and Forests. The Project will be sanctioned again only after it is cleared under the Forest (Conservation) Act, 1980.

Dukwan Hydel Scheme

2912. SHRIMATI RAT AN KUMARI: Will the Minister of ENERGY be pleased to state:

(a) whether it is a fact that Uttar Pradesh Government has nronosed a hydro-electric scheme called Dukwan Hydel Scheme on Betwa river;

(b) whether it is also a fact that the above scheme will be a subsitute for the Orchha multipurpose project which would irrigate an area of 29150 ha. in the Niwari Tehsil of Tikamgarh District;

(c) whether it is also a fact that the population of Niwari Tehsil comprises of 33 per cent backward class people; and

(d) whether the Niwari Tehsil of Tikamgarh district will be deprived from irrigation benefits for all time to come due to the taking up of the Dukwan Hydel Scheme?

THE MINISTER OF ENERGY WITH ADDITIONAL CHARGE OF THE MINISTRY OF CIVIL AVIATION (SHRI ARIF MOHD. KHAN): (a) The Dukwan Hydroelectric Project (3 x 75 MW) envisag-. ing construction of a power house at Ihe toe of the existing dam across the Betwa river to utilise the regulated releases from existing Natatila and Dukwan reservoirs was approved by the Technical Advisory Committee of the Planning Commission in August, 1965 in the State sector. The project was, however, not taken up due to financial constraints. No fresh proposal/revised project report for taking up the scheme has been received in the Centtal Electricity Authority from the State Government.

(b) Does not arise in view of (a) above.

(c) and (d) The information is being collected from the State Govt, and will be laid on the Table of the House.

Coal linkage to Kothagudem Thermal Power Station Stage-V Extension

2913. DR. NARREDDY THULASI REDDY: Will the Minister of ENERGY be pleased to state:

(a) whether coal linkage has been sanctioned to Kothagudem Thermal Power Station Stage-V Extension;

(b) if so, what are the details thereof; and

(c) if not, what are the reasons therefor?

THE MINISTER OF ENERGY WITH ADDITIONAL CHARGE OF THE MINISTRY OF CIVIL AVIATION (SHRIARIF MOHAMMED KHAN): (a) to (c) Andhra Pradesh State Electricity Board have proposed to set up Kothagudem Ther mal Power Scheme Stage-V in the 9th Plan. Since production of coal in Singareni Collieries Company Ltd. has continuously been below target, enough coal may not be available for new power plants. The coal linkage for this scheme will *inter-alia* depend on the availability of coal from SCCL during 9th Plan and the inclusion of the same in the overall priority list of 9th Plan Thermal Power Schemes I of the Planning Commission.

Techno-Economic clearance to Pulichinthala Hydro-electric project in Andhra Pradesh

2914. DR. NARREDDY THULASI REDDY: Will the Minister of ENERGY be pleased to state:

(a) whether techno-economic clearance has been given to Pulichinthala Hydro-electric project in Andhra Pradesh;

(b) if so, wh'at are the details theareof; and

(c) if not, what are the reasons therefor?

THE MINISTER OF ENERGY WITH ADDITIONAL CHARGE OF THE MINISTRY OF CIVIL AVIATION (SHRI ARIF MOHD. KHAN): (a) No, Sir.

<b) Does not arise.

(c) The Project Report on Pulichinthala Hydro-electric Project (2X30 MW), Andhra Pradesh was received in the Central Electricity Authority, 484 L. S. — 7 in June, 1989. Pulichinthala Hydro-electric Project, being a part of a multi-purpose project can be processed through the Central Electricity Authority for techno-economic clearance only after the multi-purpose project is approved by the Technical Advisory Committee of the Ministry of Water Resources.

Development of wind and tidal energy projects

2915. DR. YELAMANCHILI SIVAJI: Will the Minister of ENERGY be pleased to state:

(a) what is the State-wise breakup of the actual investment made so far for development of wind and tidal energy, separately, in the country;

(b) which are the most preferable States for the development of such energy;

(c) whether a large tidal energy project has been taken up in Gujarat with the technical collaboration of an American firm;

(d) if so, what is the present status of the project and what are the reasons for which a place in Gujarat was chosen for this pioneer venture: and

(e) what kind of tides are suitable for the purpose and what other regions of the country have similar ocean tides?

THE MINISTER OF ENERGY WITH ADDITIONAL CHARGE OF THE MINISTRY OF CIVIL AVIATION (SHRI ARIF MOHD. KHAN): (a) The State-wise break-up of the Central expenditure during the 7th Plan on the programme for development of wind energy in the country is given in the enclosed Statement. *(see below)* As regards the tidal power development an expenditure of Rs. 464. 49 lakhs has been incurred on the techno-economic feasibility studv in the Gulf of Kutch upto March, 1990.

(b) According to the available wind data, the best potential for wind